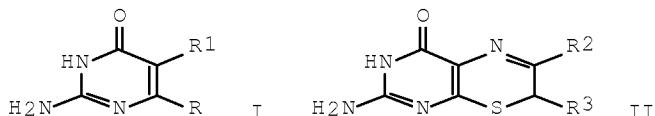


ORIGINAL REFERENCE NO.: 95:13683a,13686a
TITLE: Folate analogs. 19. Construction of some
6-substituted 7,8-dihydro-8-thiopterins
AUTHOR(S): Nair, M. G.; Boyce, Loretta H.; Berry, Michael
CORPORATE SOURCE: Coll. Med., Univ. South Alabama, Mobile, AL, 36688,
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AB Reaction of I ($R = Cl$, $R_1 = NO_2$) with Na_2S gave I ($R = SNa$, $R_1 = NO_2$), which upon dithionite reduction gave I ($R = SH$, $R_1 = NH_2$), which on reaction with a variety of α -bromo ketones gave 7,8-dihydro-8-thiopterins II ($R_2 = Ph$, 4-MeC₆H₄, 4-ClC₆H₄, MeOC₆H₄, phthalimidoalkyl; $R_3 = H$, Me). II ($R_2 = Ph$, $R_3 = Me$) (III) was also prepared by reaction of I ($R = SH$, $R_1 = NO_2$) with PhCOCHMeBr and subsequent dithionite reduction. These conversions established the structure of III and related compds. as written.

IT 77903-11-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and cyclization of)

BN 77903-11-8 ZCABPLUS

RN 7705-11-0 ECN E03
CN 4(1H)-Pyrimidinone, 2-amino-6-[(1-methyl-2-oxo-2-phenylethyl)thio]-5-nitro-
(CA INDEX NAME)

